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Distributed Data in Astronomy: A Heterogeneous Network

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Astronomy is a data intensive science that utilizes remote sensing. Astronomical data has always been heterogeneous in terms of its distribution, accessibility and characterization. Today, the data have become so large that one is required to conduct the analysis at the location of the data, creating new challenges for data security. I will discuss different solutions for how astronomy is addressing these issues, including modern big data machinery such as Johns Hopkins "SciServer" and the National Optical Astronomy Observatory's "DataLab".

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